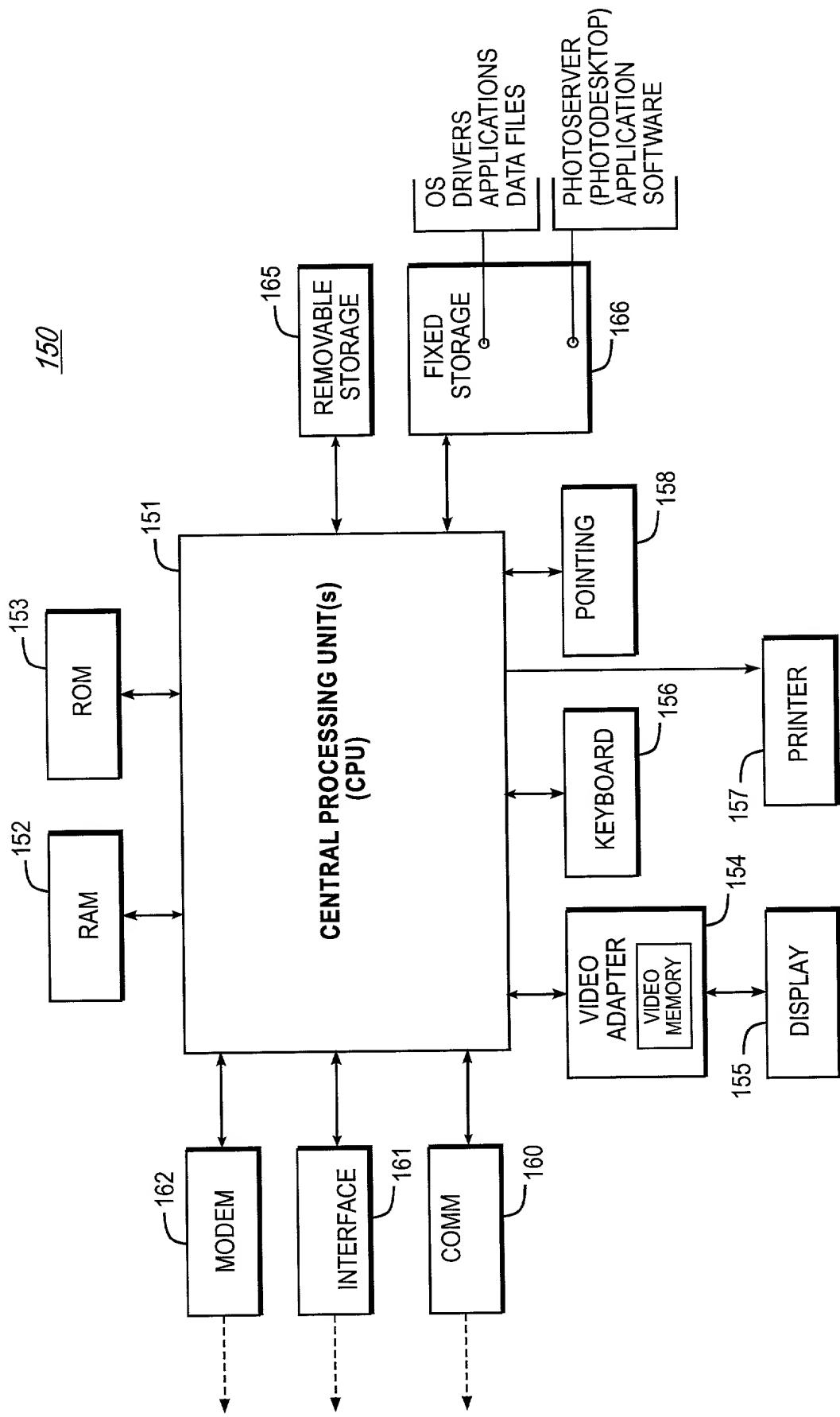


F/G. 1A



F/G. 1B

200

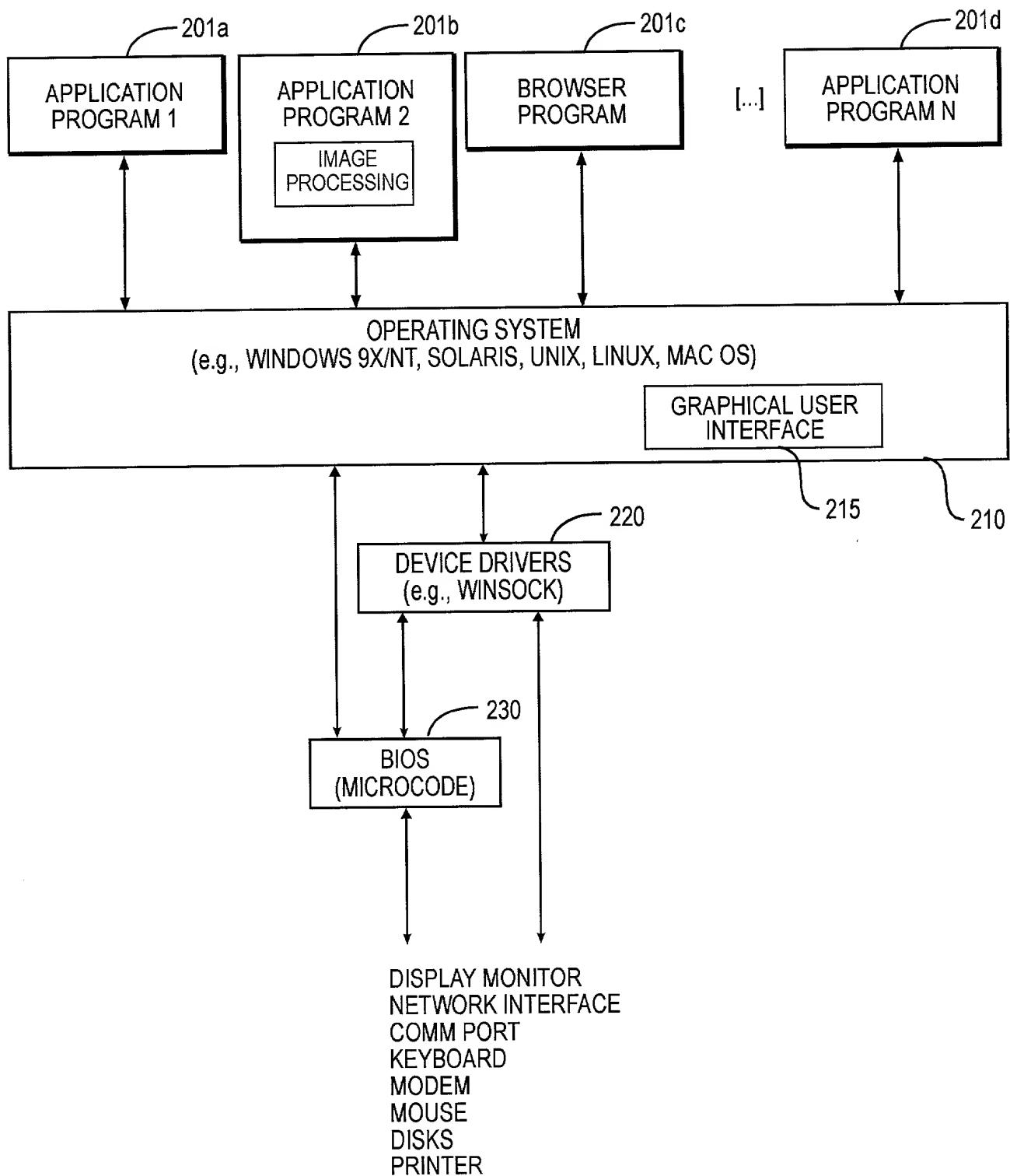


FIG. 2

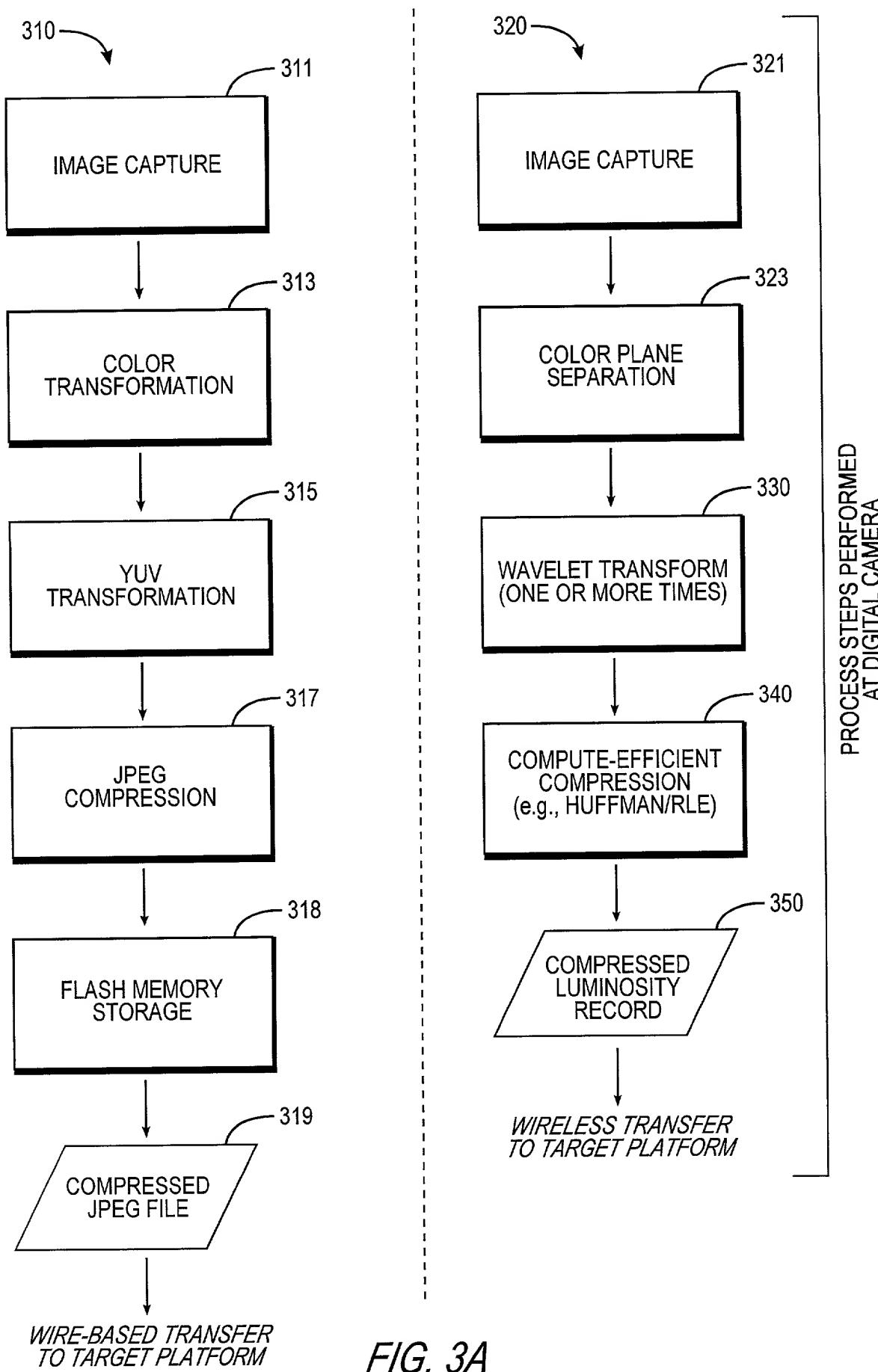
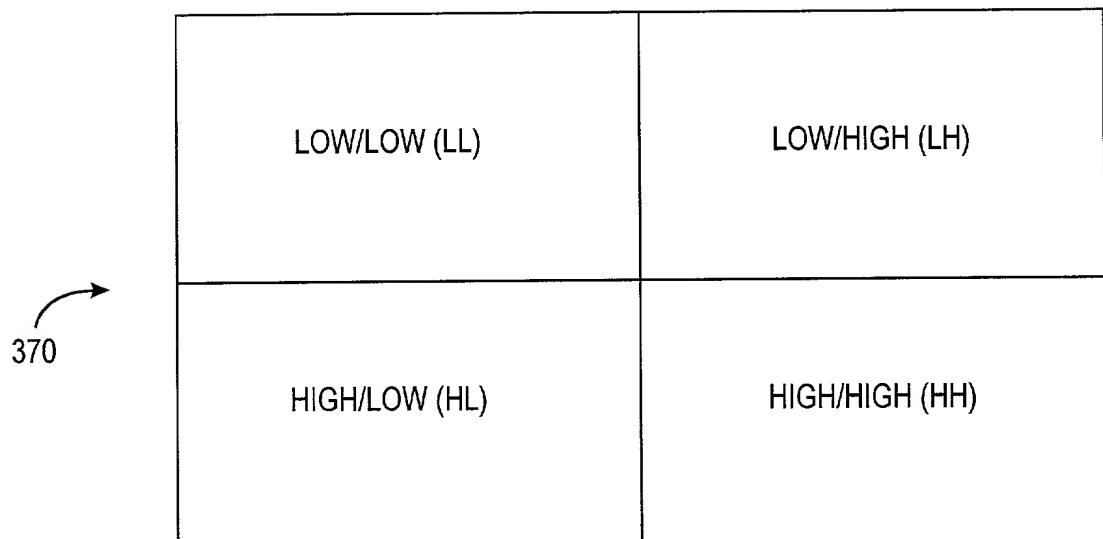


FIG. 3A



370

PASS 1

380

PASS 2

390

PASS 3

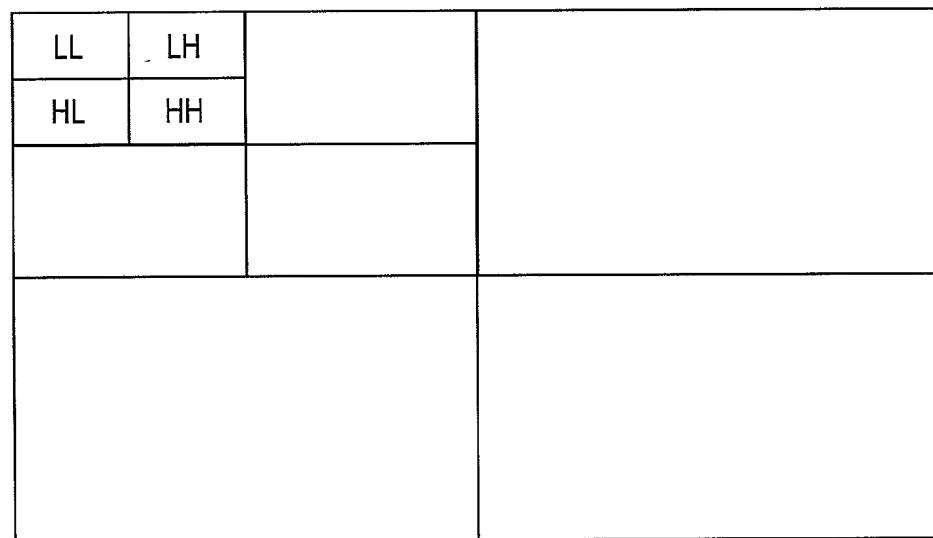
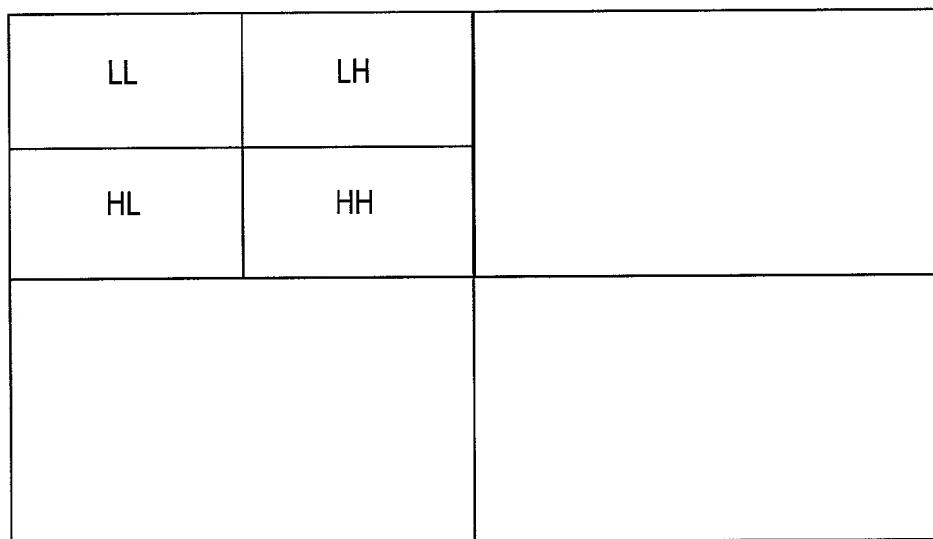


FIG. 3B



FIG. 3C



JPEG
COMPRESSION
(48:1)

FIG. 3D



WAVELET
TRANSFORM
COMPRESSION
(48:1)

FIG. 3E



JPEG
COMPRESSION
(32:1)

FIG. 3F



WAVELET
TRANSFORM
COMPRESSION
(32:1)

FIG. 3G



JPEG
COMPRESSION
(16:1)

JC903451^{PRO}
09/779769
02/07/01



FIG. 3H



WAVELET
TRANSFORM
COMPRESSION
(16:1)

FIG. 3I

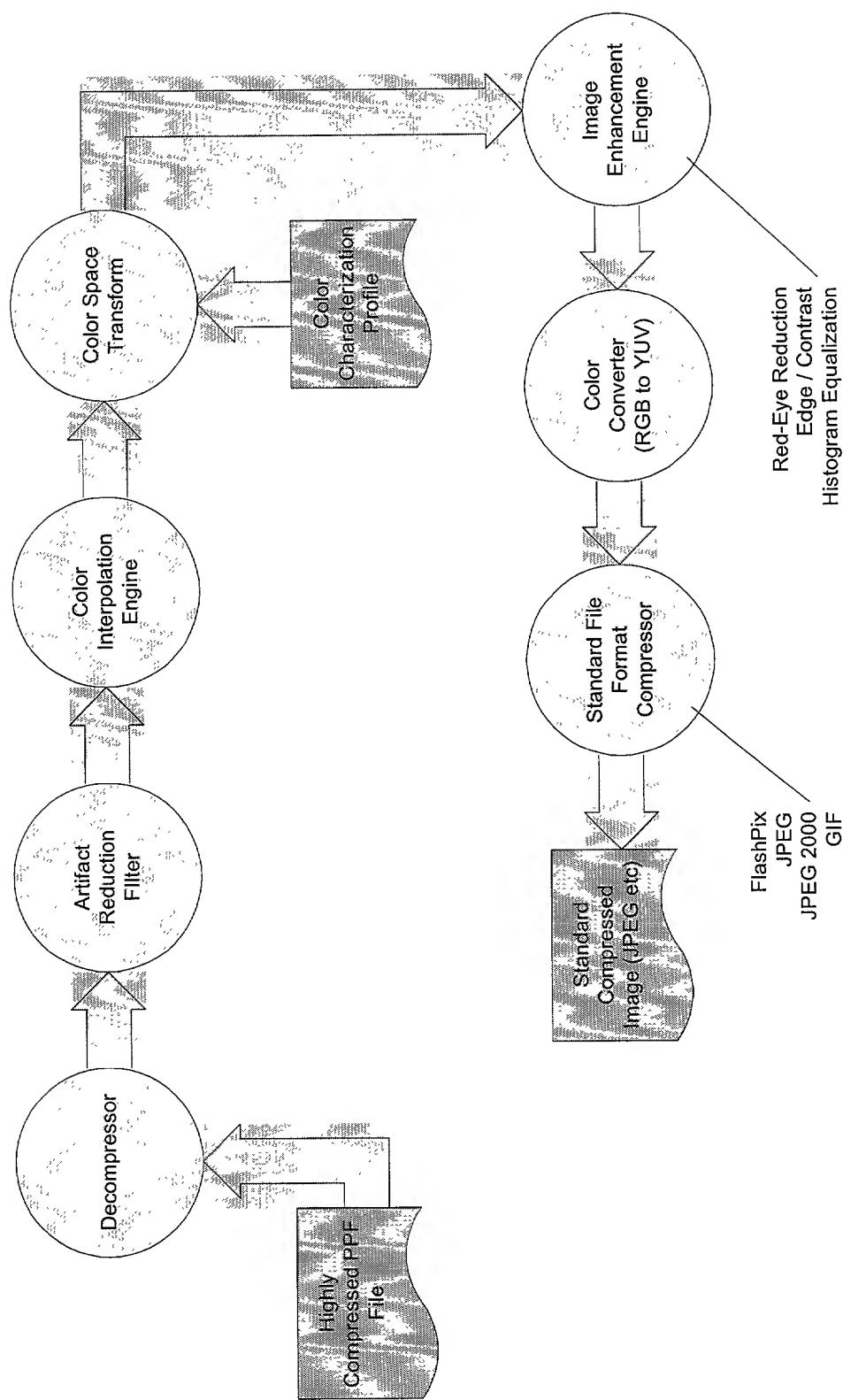


FIG. 4A

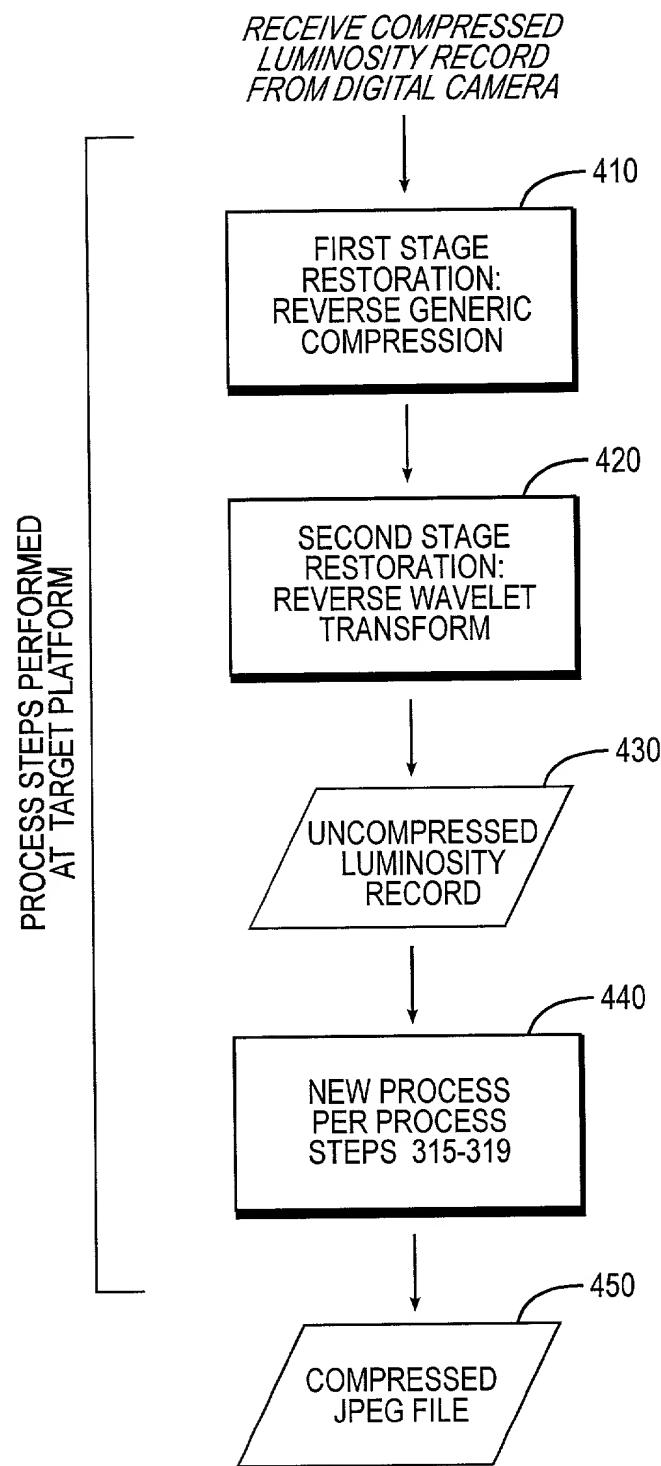


FIG. 4B

REPEATED BAYER COLOR MOSAIC

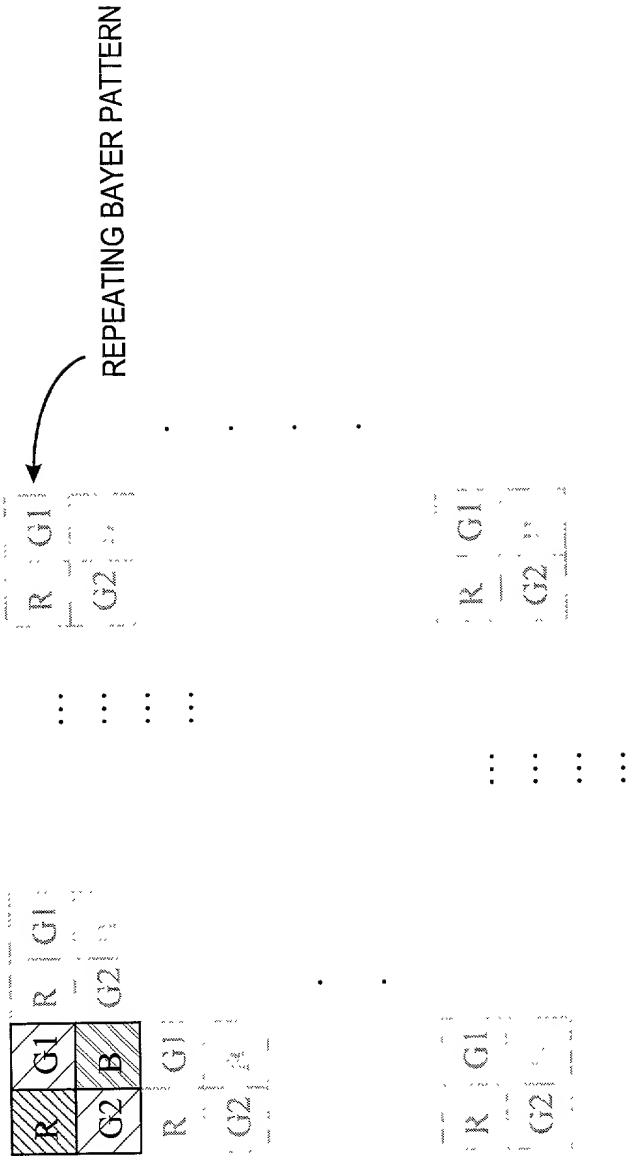


FIG. 5

UV Color Space for $Y=1.0$ (maximum)

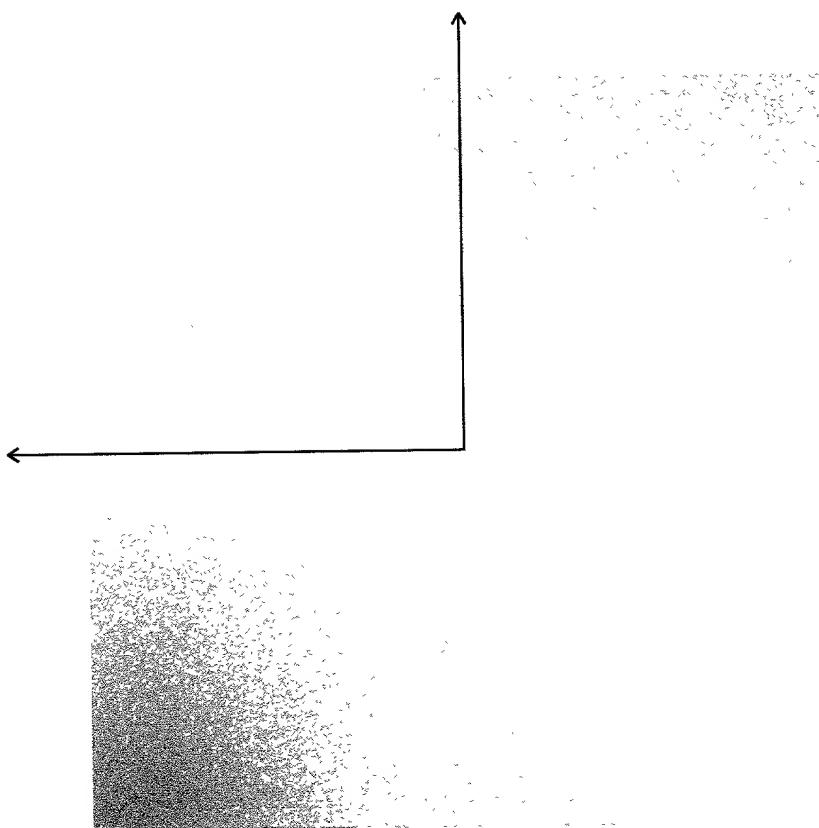
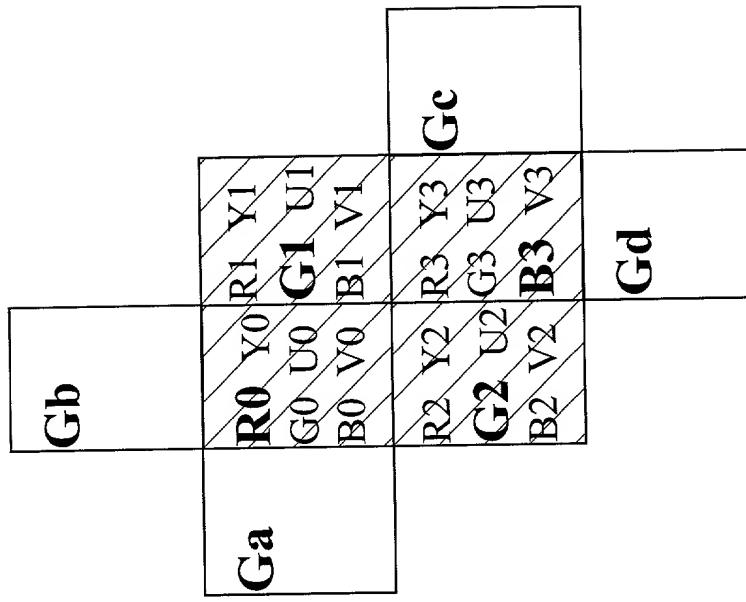


FIG. 6A

ONE CELL OF THE BAYER PATTERN (HATCHED)
AND SOME SURROUNDING PIXELS



F/G. 6B

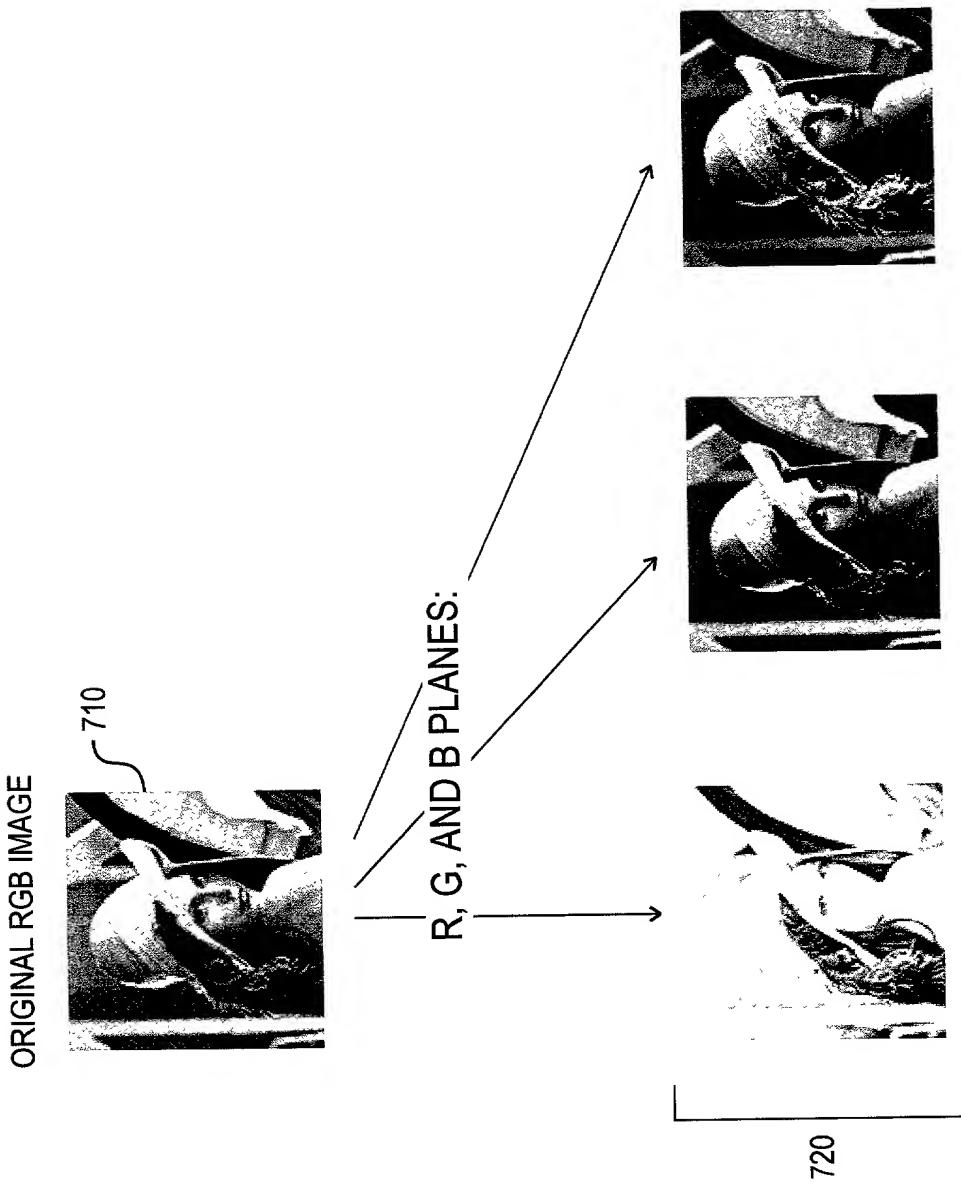
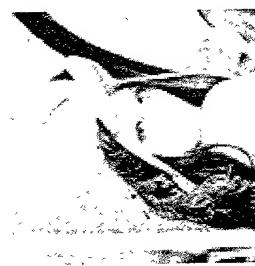
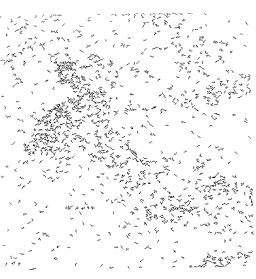


FIG. 7A

R, G, AND B PLANES:



Y, U, and V PLANES:



G, U, and V PLANES:

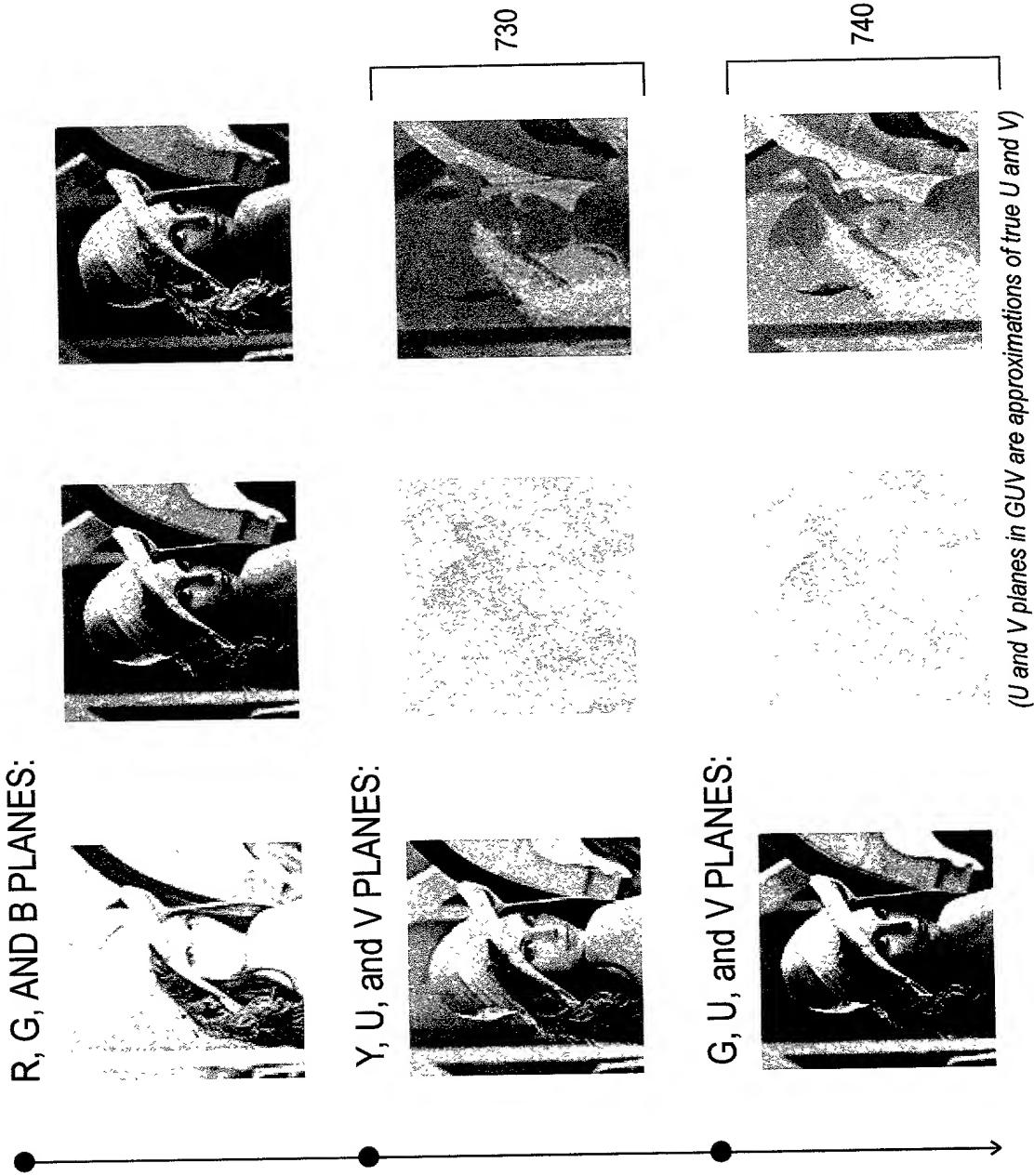
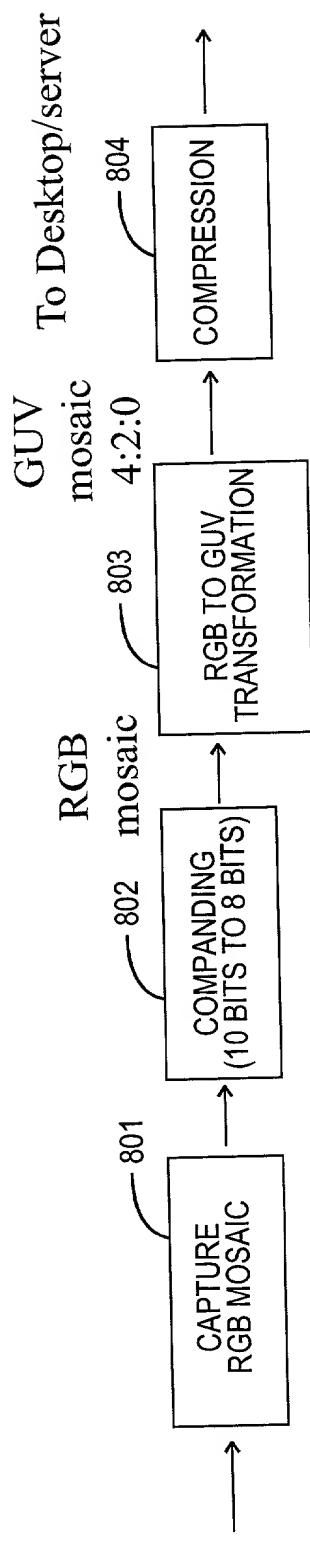
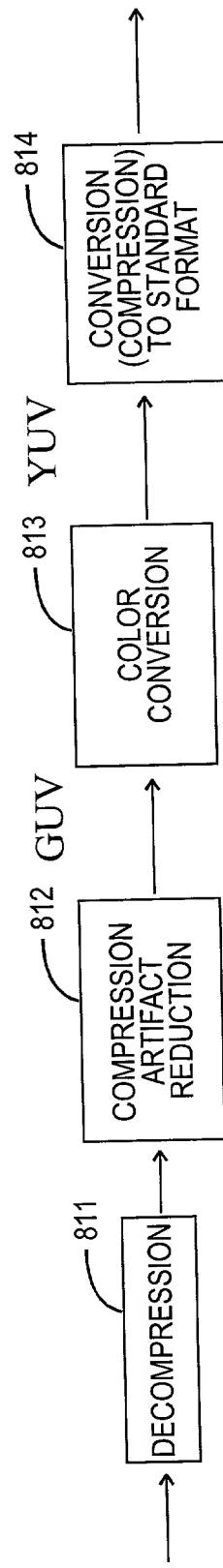


FIG. 7B



(a) Imaging Device



(b) Server/desktop

FIG. 8

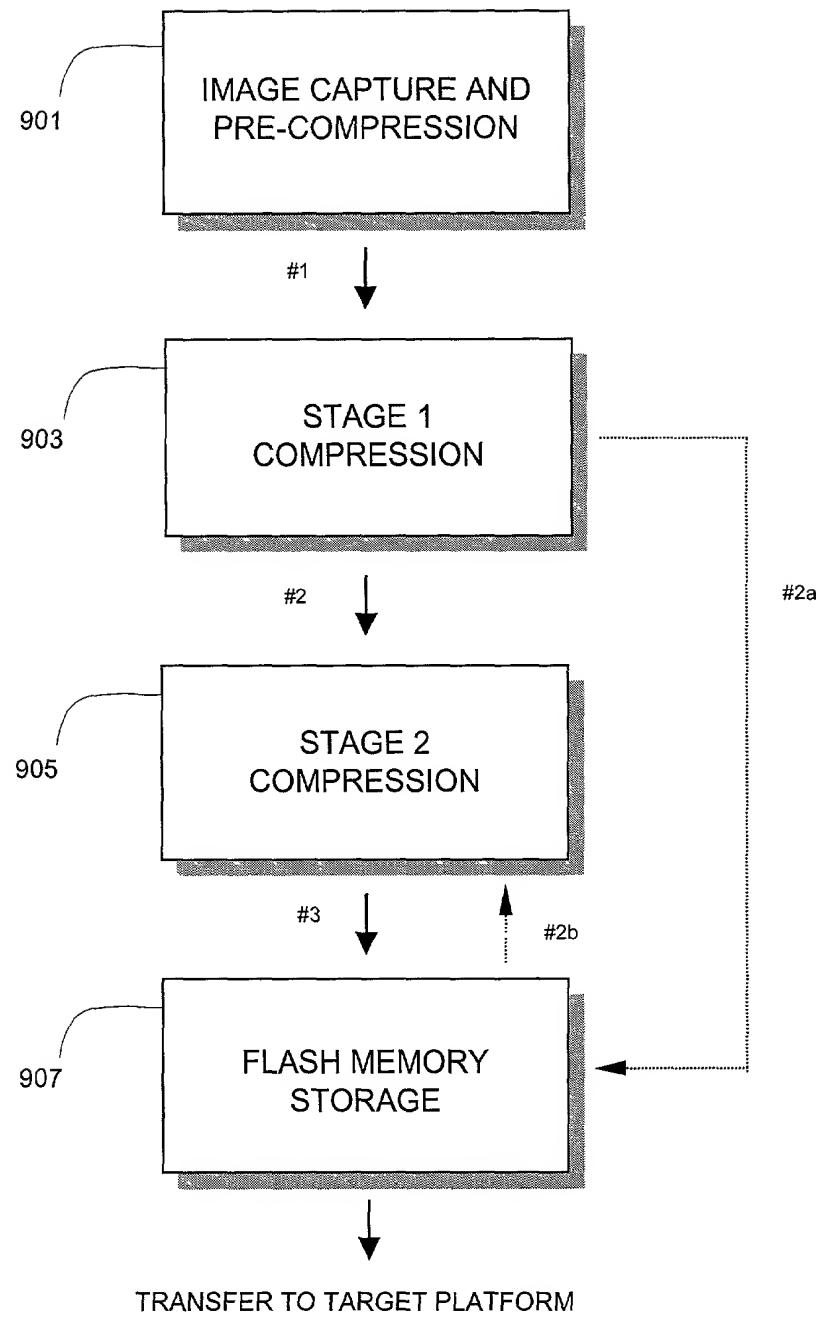


FIG. 9A

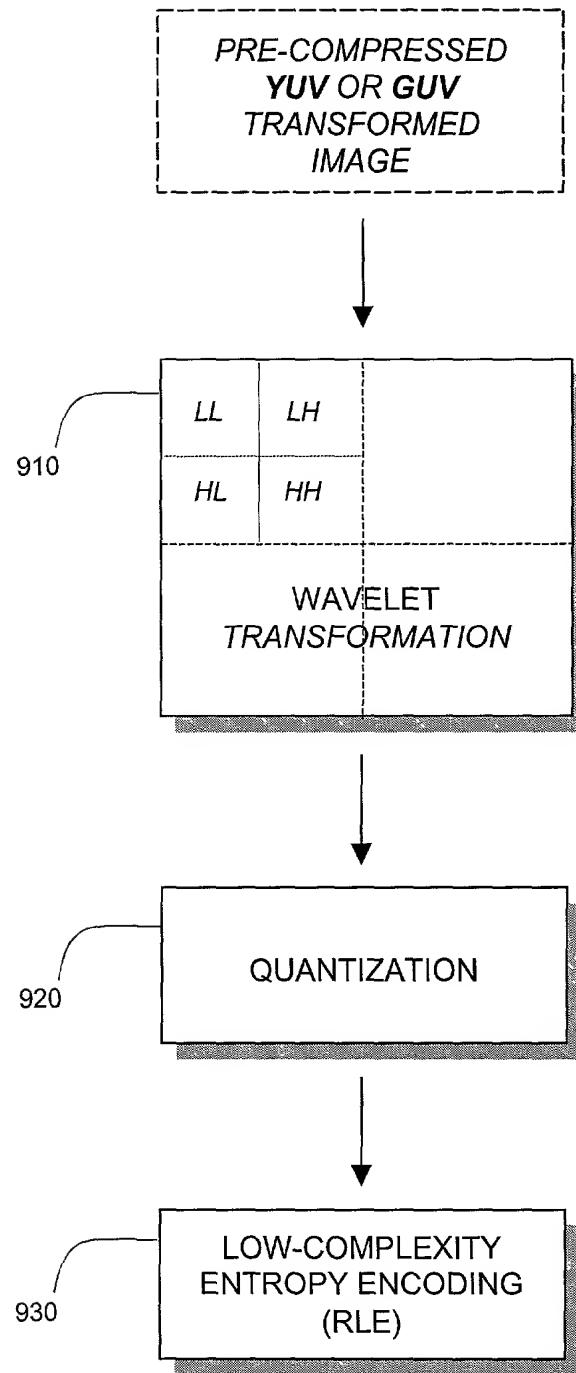


FIG. 9B

4-LEVEL WAVELET DECOMPOSITION
(BANDS SHOWN)

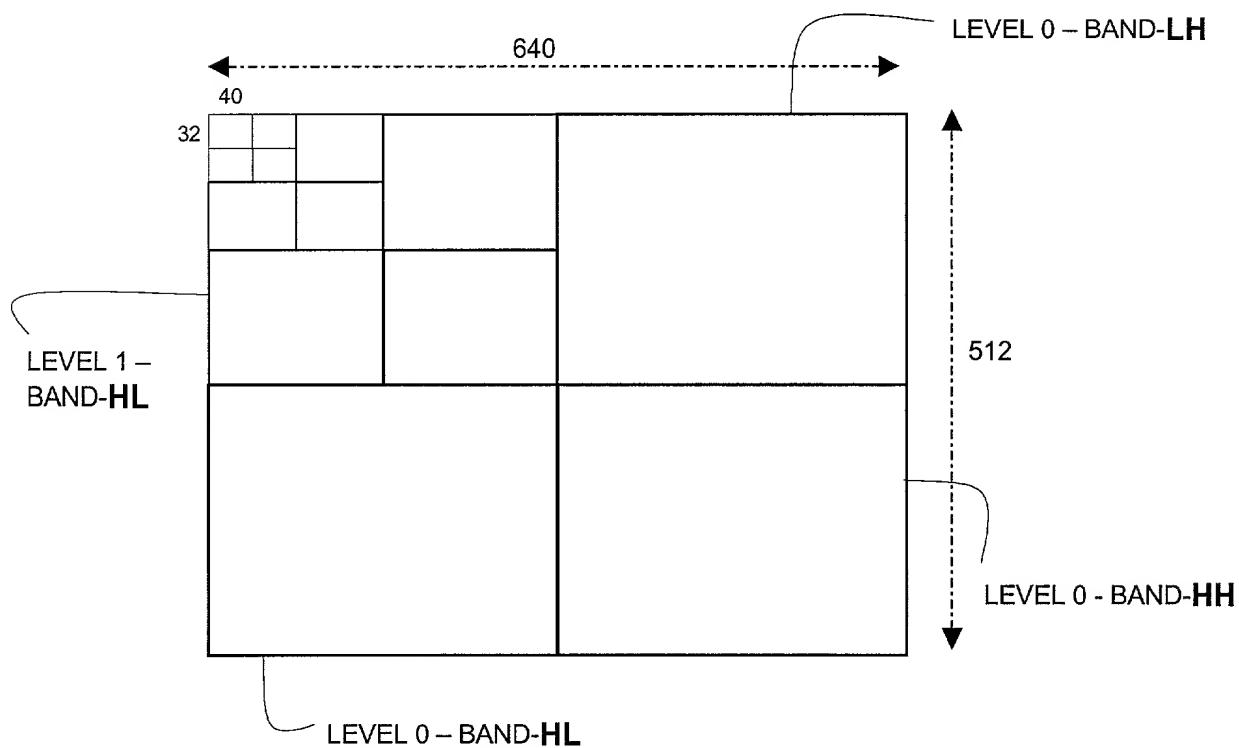


FIG. 10A

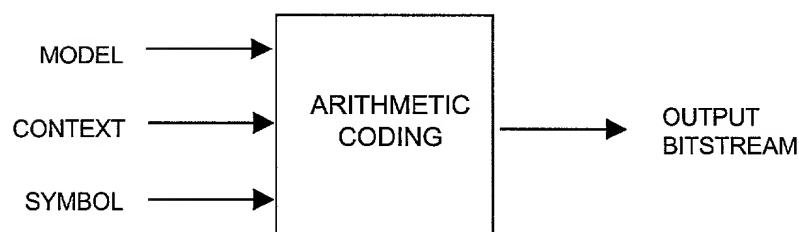


FIG. 10B

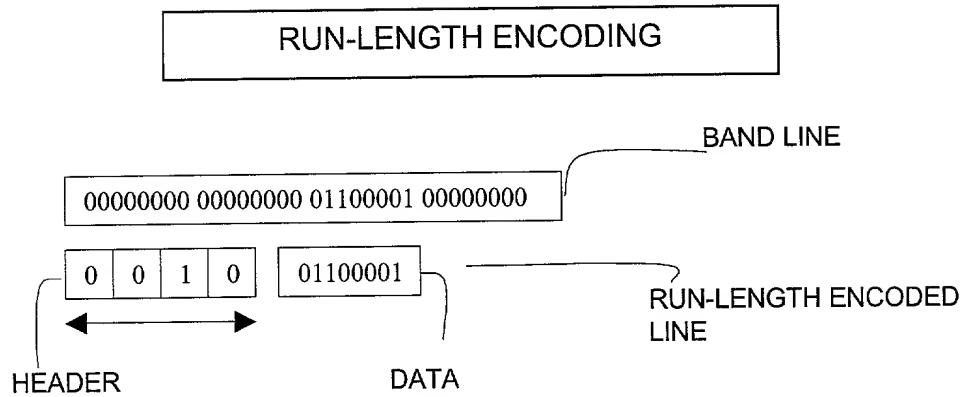


FIG. 10C